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		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE			2681
10/075,682	02/14/2002	Laurent Alain Michel Fenouil	TH1837 (US) YI:EM	2001
759	on 05/16/2003			
7590			EXAMI	NER
Yukiko Iwata			SAEED, KAMAL A	
Shell Oil Company				
Legal - Intellect	tual Property			
P.O. Box 2463			ART UNIT	PAPER NUMBER
Houston, TX 77252-2463			1626	<u> </u>
110001011, 111				8
			DATE MAILED: 05/16/2003	$\mathcal{O}$

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commonwe	10/075,682	FENOUIL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kamal A Saeed	1626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on 23	1)⊠ Responsive to communication(s) filed on <u>23 April 2003</u> .					
2a) This action is <b>FINAL</b> . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1-104</u> is/are pending in the application.						
4a) Of the above claim(s) <u>77-104</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7)⊠ Claim(s) <u>5-76</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disappr	oved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)  Office A	Action Summary	Part of Paper No. 8				

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### **DETAILED ACTION**

Claims 1 – 104 are pending in this application. Claims 1-76 (in part) and 77-104 are withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected invention. The withdrawn subject matter is patentably distinct from the elected subject matter as it differs in structure and element and would require separate search considerations. In addition, a reference which anticipates one group would not render obvious the other.

## Response to Restriction

Applicant's election of Group I, claims 1-76, drawn to a method of using olefins for making an ionic surfactant, in paper No. 7 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Therefore, the restriction requirement in paper No. 2 is still deemed proper and is made FINAL.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Applicants preserve their right to file a divisional on the non-elected subject matter.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a), which forms the basis for all obviousness

rejections, set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior are such that the subject matter as a whole would have been obvious at the time the invention was made

art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be

negatived by the manner in which the invention was made.

Applicants claim a method of using olefins for making an ionic surfactant, said method

comprising: preparing iso-paraffinic composition, exposing said iso-paraffinic composition to

catalytic dehydrogenation to prepare branched olefin composition, and converting said branched

olefin composition into anionic surfactant.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singleton et

al, US 5,849,960 in view of Goble et al, US 3,253,055 and Vora et al, US 5,012,021.

Determination of the scope and content of the prior art (MPEP §2141.01)

Singleton et al, teach a process of preparing anionic surfactants, said process comprises

isomerzing an olefin feed having at least 7 carbon atoms, conversion of said olefin to an alcohol

by way of hydroformulation, and ultimately sulfation to obtain a surfactant (See '960, abstract

and column 1, lines 6-10). Singleton et al also teach the alcohol composition having an average

number of branches per chain of at least 0.7 and less than 0.5 atom % of quaternary carbon

atoms. (See '960 abstract).

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Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

One of the difference between the claimed process and that of Singleton et al herein lie in that Singleton et al uses branched olefins to prepare the primary alcohol. Moreover, Singleton is silent about the method of preparation of the olefins. Goble et al, however, teach the isomerization and cracking of paraffins to prepare iso-paraffins (See US '055, column 1, lines 13-25). Vora et al, on the other hand teach the dehydrogenation of paraffins to obtain olefins (See '021, abstract, lines 2 and 3).

Finding of prima facie obviousness--rational and motivation (MPEP §2142-2413)

Singleton et al is analogous art because Singleton et al composition result in surfactants that are branched while retaining their bidegradibility and good cold water detergency. One skilled in the art would expect the instant claims which are analogous to Singleton et al in view of Goble et al and Vora et al, prima facie. One skilled in the art would prepare iso-paraffins, as taught by Goble et al and subject said iso-paraffins to catalytic dehydrogenation as taught by Vora et al to obtain the olefins and subject said olefins to hydroformulation, as taught by Singleton et al, to obtain branched primary alcohols that are subsequently converted to anionic surfactants. The motivation to use branched olefins to prepare anionic surfactants that are readily biodegradable arises from the expectation that similar compositions are generally expected to have similar properties.

### **Objections**

Claims 1-76 are objected to for containing non-elected subject matter.

Claims 4-76 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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## Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kamala Saeed whose telephone number is (703) 308-4592. The examiner can normally be reached on Monday-Friday from 8:00 AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Joseph K. McKane, can be reached at (703) 308 4537. The unofficial fax phone for this group are (703) 308-4556 or 305-3592.

When filing a FAX in Technology Center 1600, please indicate the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communications with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

Communication via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signiture, may be used by applicant and should be addressed to [joseph.mckane@uspto.gov]. All Internet e-mail communications will be made of record in the application file. PTO employees will not communicate with applicant via Internet e-mail where sensitive data will be exchanged or where there exists a possibility that sensitive data could be identified unless there is of record an express waiver of the confidentiality requirements under 35 U.S.C. 122 by the applicant. See the Interim Internet Usage Policy published by the Patent and Trademark Office Official Gazette on February 25, 1997 at 1195 OG 89.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist, whose telephone number is (703) 308-2286.

Kamala Saeed, Ph.D., May 14, 2003 Celia C. Chang, Ph.D., Primary Patent Examiner Art Unit 1626, Group 1620 Technology Center 1

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